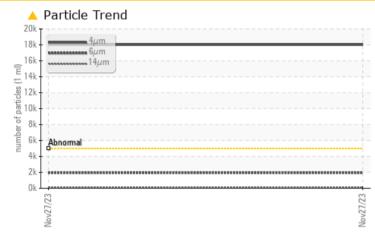
PROBLEM SUMMARY

Machine Id 928093-260350

Component Hydraulic System Fluid NOT GIVEN (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS						
Sample Status			ABNORMAL			
Particles >4µm	ASTM D7647	>5000	<u> </u>			
Particles >6µm	ASTM D7647	>1300	🔺 1945			
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<u> </u>			

Customer Id: GFL837 Sample No.: GFL0102546 Lab Number: 06028627 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

		A
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Non	/2023	

ISO

Sample Rating Trend

RECOMMENDED	ACTIONS			
Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.
Resample			?	We recommend an early resample to monitor this condition.
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Machine Id 928093-260350 Component

Hydraulic System Fluid NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0102546		
Sample Date		Client Info		27 Nov 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
CONTAMINATI		method	limit/base	current	history1	history2
Water		WC Method		NEG	Thistory	
WEAR METALS	0	method	limit/base		history1	
				current		history2
Iron	ppm	ASTM D5185m	>20	5		
Chromium	ppm	ASTM D5185m		<1		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	<1		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>75	1		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		1		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		23		
Calcium	ppm	ASTM D5185m				
				100		
				100 355		
Phosphorus	ppm	ASTM D5185m		355		
Phosphorus Zinc	ppm ppm	ASTM D5185m ASTM D5185m		355 458		
Phosphorus Zinc Sulfur	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		355 458 956		
Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base	355 458 956 current		
Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm TS ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	limit/base	355 458 956 current 1	 history1	 history2
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20	355 458 956 current 1 2		
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	>20 >20	355 458 956 current 1	 history1 	 history2
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANL	ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20 limit/base	355 458 956 current 1 2 1 2 1 current	 history1 	 history2
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm	ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647	>20 >20 limit/base >5000	355 458 956 current 1 2 1 2 1 2 1 8 2 1 1 2 1 8009	 history1 	 history2
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm	ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20 limit/base	355 458 956 current 1 2 1 2 1 current	 history1 history1	 history2 history2
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >6µm	ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647	>20 >20 limit/base >5000	355 458 956 current 1 2 1 2 1 2 1 8 2 1 1 2 1 8009	 history1 history1 	 history2 history2
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANL	ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647	>20 >20 limit/base >5000 >1300	355 458 956 <u>current</u> 1 2 1 2 1 1 <u>current</u> ▲ 18009 ▲ 1945	 history1 history1 	 history2 history2 history2
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	>20 >20 limit/base >5000 >1300 >160	355 458 956 <u>current</u> 1 2 1 2 1 1 <u>current</u> ▲ 18009 ▲ 1945 124	 history1 history1 	 history2 history2
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 >20 limit/base >5000 >1300 >160 >40	355 458 956 <u>current</u> 1 2 1 2 1 1 <u>current</u> ▲ 18009 ▲ 1945 124 36	 history1 history1 	 history2 history2 history2
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 >20 limit/base >5000 >1300 >160 >40 >10	355 458 956 current 1 2 1 2 1 1 current 1 8009 ▲ 1945 124 36 2	 history1 history1 	 history2 history2
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >6µm Particles >14µm Particles >38µm Particles >71µm	ppm ppm TS ppm ppm ppm INESS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 >20 limit/base >5000 >1300 >160 >40 >10 >3	355 458 956 current 1 2 1 2 1 1 current 1 8 0 1945 124 36 2 2 0	 history1 history1 	 history2 history2

Report Id: GFL837 [WUSCAR] 06028627 (Generated: 12/09/2023 11:17:46) Rev: 1

Contact/Location: BRYAN SWANSON - GFL837



🔺 Particle Trend

20

(1 ml) 15

umber of particles (

0

20 (1 ml)

r of particles (NOL

0

0 40

0.35 (B/H0.30 B 0.25 0.20

j 5 0.15

B 0.10

0.05 0.00

52

50

48

() 46 š

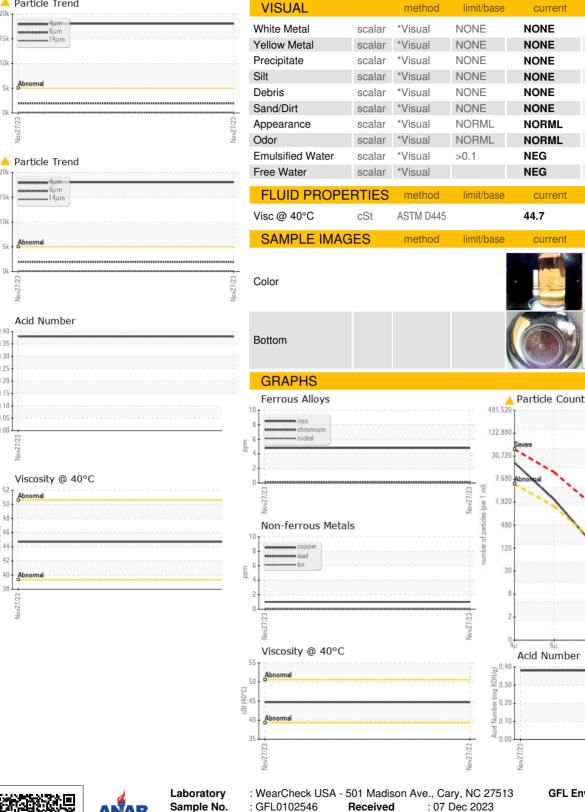
42

40

38

mhar

OIL ANALYSIS REPORT



GFL Environmental - 837 - Harrison TS 22820 S State Route 291 Harrisonville, MO US 64701 Contact: BRYAN SWANSON bryanswanson@gflenv.com T: F:

214

384

history1

history

history1

no image

no image

history2

history

history2

no image

no imade

4406

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14



To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Test Package : FLEET (Additional Tests: PrtCount)

: 06028627

: 10778418

Certificate L2367

Lab Number

Unique Number

Contact/Location: BRYAN SWANSON - GFL837

: 09 Dec 2023

: Wes Davis

Diagnosed

Diagnostician